FLOW

CONTROLS

NEEDLE VALVES GCT -02 (1/4) GCTR

Threaded Connections

Specifications/Model Number Designation/Hydraulic Fluids

Up to 35 MPa (5080 PSI)

-02

Valve Size

02

-32

Design Number

32

Used as stop valves for pressure gauge lines and small-capacity line. Also can be used as restrictors for regulating flow rates in pilot lines.

Specifications

F-

Special Seals

Special Seals for

Phosphate Ester

Type Fluids

(Ömit if not

required)

F:

YUKEN

Model Numbers		Max. Flow	Max. Operating Pressure	Approx. Mass
In-Line Type	Angle Type	L/min (U.S.GPM)	MPa (PSI)	kg (lbs.)
GCT-02-32*	GCTR-02-32*	*	35 (5080)	0.34 (.75)

★ Depends on allowable pressure drops. See flow vs. adjustment revolutions characteristics and pressure drop at full open characteristics.

Model Number Designation



*

Design Standards

Refer to

Graphic Symbol



★ Design Standards:

None.....Japanese Standard "JIS" 80.....European Design Standard

GCT

Series Number

GCT : In-line Type Needle Valve,

GCTR : Angle Type Needle

Connection

Threaded Connection

Valve. Threaded

90.....N. American Design Standard

Hydraulic Fluids

Fluid Types

Any type of hydraulic fluids listed in the table below can be used.

Petroleum base oils	Use fluids equivalent to ISO VG32 or VG46.	
Synthetic fluids	Synthetic fluids Use phosphate ester or polyol ester fluid. When phosphate ester fluid is used, prefix "F-" to the model number because the special seals (fluororubber) are required to be used.	
Water containing fluids	Use water-glycol fluid.	

Note: For use with hydraulic fluids other than those listed above, please consult your Yuken representatives in advance.

Recommended Viscosity and Oil Temperatures

Viscosity ranging between 15 - $400 \text{ mm}^2/\text{s}$ (77 - 1800 SSU). Oil temperatures between $-15/+70^{\circ}C$ (5 - 158°F). Use hydraulic fluids which satisfy the recommended viscosity and oil temperatures given above.

Control of Contamination

Due caution must be paid to maintaining control over contamination of the hydraulic fluids which may otherwise lead to breakdowns and shorten the life of the valves. Please maintain the degree of contamination within NAS 1638-Grade 12. Use 25 μ m or finer line filter.

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